

ENTERED

1642

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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/359,326ADATE: 08/24/2000
TIME: 14:51:23Input Set : A:\Reiteri4.app
Output Set: N:\CRF3\08232000\I359326A.raw

3 <110> APPLICANT: Reiter, Robert E.
4 Witte, Owen N.
5 Saffran, Douglas C.
7 <120> TITLE OF INVENTION: PSCA: PROSTATE STEM CELL ANTIGEN AND USES THEREOF
9 <130> FILE REFERENCE: 30435.54US14
11 <140> CURRENT APPLICATION NUMBER: 09/359,326A
12 <141> CURRENT FILING DATE: 1999-07-20
14 <150> PRIOR APPLICATION NUMBER: 08/814,279
15 <151> PRIOR FILING DATE: 1997-03-10
17 <150> PRIOR APPLICATION NUMBER: 60/071,141
18 <151> PRIOR FILING DATE: 1998-01-12
20 <150> PRIOR APPLICATION NUMBER: 60/074,675
21 <151> PRIOR FILING DATE: 1998-02-13
23 <150> PRIOR APPLICATION NUMBER: 60/113,230
24 <151> PRIOR FILING DATE: 1998-12-21
26 <150> PRIOR APPLICATION NUMBER: 60/120,536
27 <151> PRIOR FILING DATE: 1999-02-17
29 <150> PRIOR APPLICATION NUMBER: 60/124,658
30 <151> PRIOR FILING DATE: 1999-03-16
32 <150> PRIOR APPLICATION NUMBER: 09/038,261
33 <151> PRIOR FILING DATE: 1998-03-10
35 <150> PRIOR APPLICATION NUMBER: 09/203,939
36 <151> PRIOR FILING DATE: 1998-12-02
38 <150> PRIOR APPLICATION NUMBER: 09/251,835
39 <151> PRIOR FILING DATE: 1999-02-17
41 <150> PRIOR APPLICATION NUMBER: 09/308,503
42 <151> PRIOR FILING DATE: 1999-05-25
44 <160> NUMBER OF SEQ ID NOS: 27
46 <170> SOFTWARE: PatentIn Ver. 2.0
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50 <212> TYPE: DNA
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68 <220> FEATURE:
69 <221> NAME/KEY: misc_feature

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111 gectgcaggt ggagaactgc acccagctgg gggagcagtg ctggaccgcg cgcacccgcg 180
112 cagttggcct cctgaccgtc atcagcaaag gctgcagctt gaactgctg gatgactcac 240
113 aggactacta cgtgggcaag aagaacatca cgtgctgtga caccgacttg tgcaacgccca 300
114 gcgggggccca tgcctgcag ccggctgccc ccacccctgc gctgctccct gcaactggcc 360
115 tgctgctctg gggaccgggc cagctatagg ctctgggggg ccccgctgca gcccacactg 420
116 ggtgtggtgc cccaggcctt tgtgccactc ctacagaac ctggcccagt gggagcctgt 480
117 cctggttcct gaggcacatc ctaacgcaag tttgaccatg tatgtttgca ccccttttcc 540
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W--> 119 tgañacanat cgcñtgcag atggcccttc caaccñttñ tñtñtñtñt tccatggccc 660
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121 ccaccccat tattaattga gccaggtttg gtcggtgtg tccccgcac ccagcagggg 780
122 acaggcaatc agggggggcc agtaaaggct gagatgaagt ggactgagta gaactggagg 840
123 acaagagttg acgtgagttc ctgggagttt ccagagatgg ggccctggagg cctggaggaa 900
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125 taataaacac ctgttgata agccaaaaaa aaaaaaaa 998
127 <210> SEQ ID NO: 2

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142 <222> LOCATION: (67)..(81)
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149          20          25          30
151 Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
152          35          40          45
154 Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys
155          50          55          60
157 Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
158          65          70          75          80
160 Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
161          85          90          95
163 Ala His Ala Leu Gln Pro Ala Ala Ala Ile Leu Ala Leu Leu Pro Ala
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166 Leu Gly Leu Leu Leu Trp Gly Pro Gly Gln Leu
167          115          120
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172 <212> TYPE: DNA
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178 tgcagcctgg accagcacag ttgctttaca tcgcgcatcc gggccattgg actcgtgaca 180
179 gttatcagta agggctgcag ctcacagtgt gaggatgact cggagaacta ctatttgggc 240
180 aagaagaaca tcacgtgctg ctactctgac ctgtgcaatg tcaacggggc ccacaccctg 300
181 aagccaccca ccaccctggg gctgctgacc gtgctctgca gcctgttgct gtggggctcc 360
182 agccgtctgt aggtcttggg agagcctacc atagcccgat tgtgaaggga tgagctgcac 420
183 tccaccccac cccacacag g
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190 <400> SEQUENCE: 4
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194 Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
195                20                25                30
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198                35                40                45
200 Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
201                50                55                60
203 Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
204        65                70                75                80
206 Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
207                85                90                95
209 Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu
210                100                105                110
212 Cys Ser Leu Leu Leu Trp Gly Ser Ser Arg Leu
213                115                120
216 <210> SEQ ID NO: 5
217 <211> LENGTH: 131
218 <212> TYPE: PRT
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226                20                25                30
228 Leu Tyr Cys Leu Lys Pro Thr Ile Cys Ser Asp Gln Asp Asn Tyr Cys
229                35                40                45
231 Val Thr Val Ser Ala Ser Ala Gly Ile Gly Asn Leu Val Thr Phe Gly
232                50                55                60
234 His Ser Leu Ser Lys Thr Cys Ser Pro Ala Cys Pro Ile Pro Glu Gly
235        65                70                75                80
237 Val Asn Val Gly Val Ala Ser Met Gly Ile Ser Cys Cys Gln Ser Phe
238                85                90                95
240 Leu Cys Asn Phe Ser Ala Ala Asp Gly Gly Leu Arg Ala Ser Val Thr
241                100                105                110
243 Leu Leu Gly Ala Gly Leu Leu Leu Ser Leu Leu Pro Ala Leu Leu Arg
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246 Phe Gly Pro
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250 <210> SEQ ID NO: 6
251 <211> LENGTH: 123
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260                20                25                30
262 Glu Asp Cys Leu Gln Val Glu Asn Cys Thr Gln Leu Gly Glu Gln Cys
263                35                40                45
265 Trp Thr Ala Arg Ile Arg Ala Val Gly Leu Leu Thr Val Ile Ser Lys

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Input Set : A:\Reiteri4.app
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266      50      55      60
268 Gly Cys Ser Leu Asn Cys Val Asp Asp Ser Gln Asp Tyr Tyr Val Gly
269 65      70      75      80
271 Lys Lys Asn Ile Thr Cys Cys Asp Thr Asp Leu Cys Asn Ala Ser Gly
272      85      90      95
274 Ala His Ala Leu Gln Pro Ala Ala Ala Ile Leu Ala Leu Leu Pro Ala
275      100      105      110
277 Leu Gly Leu Leu Leu Trp Gly Pro Gly Gln Leu
278      115      120
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283 <212> TYPE: PRT
284 <213> ORGANISM: MURINE PSCA (mPSCA)
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290 Pro Gly Ala Ala Leu Gln Cys Tyr Ser Cys Thr Ala Gln Met Asn Asn
291      20      25      30
293 Arg Asp Cys Leu Asn Val Gln Asn Cys Ser Leu Asp Gln His Ser Cys
294      35      40      45
296 Phe Thr Ser Arg Ile Arg Ala Ile Gly Leu Val Thr Val Ile Ser Lys
297 50      55      60
299 Gly Cys Ser Ser Gln Cys Glu Asp Asp Ser Glu Asn Tyr Tyr Leu Gly
300 65      70      75      80
302 Lys Lys Asn Ile Thr Cys Cys Tyr Ser Asp Leu Cys Asn Val Asn Gly
303      85      90      95
305 Ala His Thr Leu Lys Pro Pro Thr Thr Leu Gly Leu Leu Thr Val Leu
306      100      105      110
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309      115      120
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313 <211> LENGTH: 20
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR PRIMER
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325 <212> TYPE: DNA
326 <213> ORGANISM: Artificial Sequence
328 <220> FEATURE:
329 <223> OTHER INFORMATION: Description of Artificial Sequence: RT-PCR PRIMER
331 <400> SEQUENCE: 9
332 gcagctcatc ccttcacaat 20
334 <210> SEQ ID NO: 10
335 <211> LENGTH: 408
336 <212> TYPE: DNA

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/359,326A

DATE: 08/24/2000

TIME: 14:51:24

Input Set : A:\Reiteri4.app

Output Set: N:\CRF3\08232000\I359326A.raw

L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
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L:124 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1